NEX-7/7K

SERVICE MANUAL

LEVEL 2

Ver. 1.4 2012.07

Revised-4

Replace the previously issued SERVICE MANUAL 9-834-618-34 with this Manual.

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model
Korea Model
Japanese Model
Tourist Model



Photo: NEX-7/Black

SERVICE NOTE (Check the following note before the service.)

– ENGLISH –

1-1. PRECAUTION ON REPLACING THE SY-296 BOARD
1-2. PRECAUTION ON REPLACING THE CABINET FRONT

– JAPANESE –

1-1. SY-296基板交換時の注意
1-2. 前キャビネット交換時の注意

[About the service of this model]

- NEX-7K is commodity that packed the Interchangeable Lens Digital Camera and Interchangeable Lenses. Refer to each following service manual the Interchangeable Lens kit, when you repair.
- When replacing a part of lens (SEL1855), do not replace the part of silver model with the one for black model and vice versa.

Model	Lens	Service Manual of Lens
NEX-7	No supplied lens	No supplied lens
NEX-7K	SEL1855 (E 18-55mm F3.5-5.6 OSS)	9-852-799-1[]

INTERCHANGEABLE LENS DIGITAL CAMERA

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SONY®

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2011.10	Official Release	—	—
1.1	2012.01	Revised-1 (A1 11-323)	• Correction of REPAIR PARTS LIST. Page 2-8 • Addition of ASSEMBLY. Page 3-2	Yes
1.2	2012.02	Revised-2 (A2 11-353)	• Correction of ACCESSORIES. Page 2-12	Yes
1.3	2012.04	Revised-3 (A3 12-056)	• Correction of REPAIR PARTS LIST. Page 2-4, 2-6, 2-7 • Correction of ACCESSORIES. Page 2-12	Yes
1.4	2012.07	Revised-4 (A4 12-190)	• Correction of REPAIR PARTS LIST. Page 2-9	Yes

NEX-7/7K_L2
9-834-618-35

Sony Corporation

2012G08-1

Published by Sony Techno Create Corporation

SPECIFICATIONS

Camera

[System]
Camera type: Interchangeable lens digital camera
Lens: E-mount lens

[Image sensor]
Image sensor: 23.5 × 15.6 mm (APS-C format) CMOS image sensor
Total pixel number of image sensor: Approx. 24 700 000 pixels
Effective pixel number of camera: Approx. 24 300 000 pixels

[Anti-dust]
System: Charge protection coating on Optical Filter and ultrasonic vibration mechanism

[Auto focus system]
System: Contrast detection system
Sensitivity range: EV0 to EV20 (at ISO 100 equivalent, with F2.8 lens)

[Exposure control]
Metering method: 1 200-segment metering by the image sensor
Metering range: EV0 to EV20 (at ISO 100 equivalent, with F2.8 lens)
ISO sensitivity (Recommended exposure index): Auto, ISO 100 to 16000
Exposure compensation: ±5.0 EV (1/3 EV step)

[Shutter]
Type: Electronically-controlled, vertical-traverse, focal-plane type
Speed range: 1/4000 second to 30 seconds, BULB (1/3 EV step)
Flash sync speed: 1/160 second

[Recording media]
"Memory Stick PRO Duo" media, SD card

[Electronic viewfinder]
Type: Electronic viewfinder (Organic Electro-Luminescence)
Screen size: 1.3 cm (0.5 type)
Total number of dots: 2 359 296 dots
Frame coverage: Approx. 100%
Magnification: 1.09 × with 50 mm lens at infinity, -1 m^{-1} (diopter)
Eye point: Approx. 23 mm from the eyepiece, 21 mm from the eyepiece frame at -1 m^{-1}
Diopter adjustment: -4.0 m^{-1} to $+1.0$ m^{-1} (diopter)

[LCD monitor]
LCD panel: 7.5 cm (3.0 type) TFT drive
Total number of dots: 921 600 (640 × 3 (RGB) × 480) dots

[Input/output terminals]
USB: miniB
HDMI: HDMI type C minijack

[Power]
Used battery pack: Rechargeable battery pack NP-FW50

[Others]
Exif Print: Compatible
PRINT Image Matching III: Compatible
Dimensions (CIPA compliant):
Approx. 119.9 mm × 66.9 mm × 42.6 mm (4 3/4 inches × 2 3/4 inches × 1 11/16 inches) (W/H/D)
Mass (CIPA compliant):
Approx. 350 g (12.3 oz) (including battery and "Memory Stick PRO Duo" media)
Approx. 291 g (10.3 oz) (camera only)
Operating temperature: 0°C to 40°C (32°F to 104°F)
File format:
Still image: JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) compliant, DPOF compatible
3D still images: MPO (MPF Extended (Disparity Image)) compliant
Movie (AVCHD format): AVCHD format Ver.2.0 compatible
Video: MPEG-4 AVC/H.264
Audio: Dolby Digital 2ch
Dolby Digital Stereo Creator
• Manufactured under license from Dolby Laboratories.
Movie (MP4 format):
Video: MPEG-4 AVC/H.264
Audio: MPEG-4 AAC-LC 2ch
USB communication: Hi-Speed USB (USB 2.0)

[Flash]
Flash guide number: GN 6 (in meters at ISO 100)
Recycling time: Approx. 4 seconds
Flash coverage: Covering 18 mm lens (focal length that the lens indicates)
Flash compensation: ±3.0 EV (1/3 EV step)
Flash range (m):

ISO	F2.8	F3.5	F5.6
100	1 - 2.1	1 - 1.7	1 - 1.1
200	1 - 3	1 - 2.4	1 - 1.5
400	1.4 - 4.3	1.1 - 3.4	1 - 2.1
800	2 - 6.1	1.6 - 4.8	1 - 3

Flash range (feet):

ISO	F2.8	F3.5	F5.6
100	3.3 - 6.9	3.3 - 5.6	3.3 - 3.6
200	3.3 - 9.8	3.3 - 7.9	3.3 - 4.9
400	4.6 - 14	3.6 - 11	3.3 - 6.9
800	6.6 - 20	5.2 - 16	3.3 - 9.8

Battery charger BC-VW1

Input rating: 100 V – 240 V AC, 50 Hz/60 Hz, 4.2 W
Output rating: 8.4 V DC, 0.28 A
Operating temperature range: 0°C to 40°C (32° to 104°F)
Storage temperature range: –20°C to +60°C (–4°F to +140°F)
Maximum dimensions: Approx. 63 × 95 × 32 mm (2 1/2 × 3 3/4 × 1 5/16 inches) (W/H/D)
Mass: Approx. 85 g (3 oz)

Rechargeable battery pack NP-FW50

Used battery: Lithium-ion battery
Maximum voltage: DC 8.4 V
Nominal voltage: DC 7.2 V
Maximum charge voltage: DC 8.4 V
Maximum charge current: 1.02 A
Capacity: Typical 7.7 Wh (1 080 mAh)
Minimum 7.3 Wh (1 020 mAh)
Maximum dimensions:
Approx. 31.8 × 18.5 × 45 mm (1 5/16 × 3/4 × 1 13/16 inches) (W/H/D)
Mass: Approx. 57 g (2.1 oz)

Model information table

Model	NEX-7	NEX-7K
Destination	US, CND, AEP, UK, E, KR, AUS, CH, J	US, CND, AEP, UK, E, KR, AUS, CH, JE, J
Lens	×	E 18-55mm F3.5-5.6 OSS

・Abbreviation
AUS : Australian model
CND : Canadian model
CH : Chinese model
J : Japanese model
JE : Tourist Model
KR : Korea model

概略仕様

本体

[形式]
カメラタイプ：レンズ交換式デジタルカメラ
使用レンズ：Eマウントレンズ

[撮像部]
イメージセンサー：23.5 × 15.6 mm（APS-Cサイズ）、CMOSイメージセンサー
総画素数：約24 700 000画素
カメラ有効画素数：約24 300 000画素

[アンチダスト]
システム：帯電防止コートおよび超音波振動によるアンチダスト機能

[オートフォーカス]
形式：コントラスト検出方式
検出輝度範囲：EV0 ～ EV20（ISO 100相当、F2.8レンズ使用時）

[露出制御]
測光方式：イメージセンサーによる1 200分割測光
測光範囲：EV0 ～ EV20（ISO 100相当、F2.8レンズ使用時）
ISO感度（推奨露光指数）：オート、ISO100 ～ 16000
露出補正：±5.0EV（1/3段ステップ）

[シャッター]
形式：電子制御式縦走りフォーカルプレーンシャッター
シャッタースピード範囲：1/4000 ～ 30 秒、バルブ（1/3段ステップ）
フラッシュ同調速度：1/160秒

[記録メディア]
"メモリースティック PRO デュオ"、SDカード

[ファインダー]
形式：電子式ビューファインダー（有機EL）
画面サイズ：1.3 cm（0.5型）
総ドット数：2 359 296ドット
視野率：約100%
倍率：1.09倍（50 mmレンズ、無限遠、視度−1 m^{-1}時）
アイポイント：最終光学面から約23 mm、接眼枠から約21 mm（視度−1 m^{-1}時）
視度調整：−4.0 m^{-1} ～＋1.0 m^{-1}（ディオプター）

[液晶モニター]
形式：7.5 cm（3.0型）TFT駆動
ドット数：921 600（640×3（RGB）×480）ドット

[入出力端子]
USB端子：miniB
HDMI端子：HDMIタイプCミニ端子

[電源]
バッテリー：リチャージャブルバッテリーパックNP-FW50

[その他]
Exif Print：対応
PRINT Image Matching III：対応
外形寸法（CIPA準拠）：
約119.9 mm×66.9 mm×42.6 mm（幅×高さ×奥行き）
本体質量（CIPA準拠）：
約350 g（バッテリー、"メモリースティック PRO デュオ"を含む）
約291 g（本体のみ）
動作温度：0℃～ 40℃
記録方式：
静止画記録方式：
JPEG（DCF Ver.2.0、Exif Ver.2.3、MPF Baseline）準拠、DPOF対応
3D静止画記録方式：MPO（MPF Extended（立体視））準拠
動画記録方式（AVCHD方式）：
AVCHD規格 Ver.2.0準拠
映像：MPEG-4 AVC/H.264
音声：Dolby Digital 2ch
ドルビーデジタルステレオクリエーター搭載
・ドルビーラボラトリーズからの実施権に基づき製造されています。
動画記録方式（MP4方式）：
映像：MPEG-4 AVC/H.264
音声：MPEG-4 AAC-LC 2ch
USB通信：Hi-Speed USB（USB2.0）

[フラッシュ]
ガイドナンバー：6（ISO100・m）
充電時間：約4秒
照射角：18 mmレンズをカバー（レンズ表記の焦点距離）
調光補正：±3EV（1/3段ステップ）
フラッシュ光の届く距離(m)：

ISO	F2.8	F3.5	F5.6
100	1 ～ 2.1	1 ～ 1.7	1 ～ 1.1
200	1 ～ 3	1 ～ 2.4	1 ～ 1.5
400	1.4 ～ 4.3	1.1 ～ 3.4	1 ～ 2.1
800	2 ～ 6.1	1.6 ～ 4.8	1 ～ 3

バッテリーチャージャーBC-VW1

定格入力：AC100 V – 240 V、50 Hz/60 Hz、4.2 W
定格出力：DC 8.4 V、0.28 A
動作温度：0℃～ 40℃
保存温度：－20℃～＋60℃
最大外形寸法：約63×95×32 mm（幅×高さ×奥行き）
本体質量：約85 g

リチャージャブルバッテリーパックNP-FW50

使用電池：リチウムイオン蓄電池
最大電圧：DC 8.4 V
公称電圧：DC 7.2V
容量：公称容量 7.7 Wh（1 080 mAh）
定格（最小）容量：7.3 Wh（1 020 mAh）
最大外形寸法：約31.8×18.5×45 mm（幅×高さ×奥行き）
本体質量：約57 g

– ENGLISH –

CHEMICALS

Some chemicals used for servicing are highly volatile.
Their evaporation caused by improper management affects your health and environment, and wastes resources.
Manage the chemicals carefully as follows.

- Store chemicals sealed in a specific place to prevent from exposure to high temperature or direct sunlight.
- Avoid dividing chemicals into excessive numbers of small containers to reduce natural evaporation.
- Keep containers sealed to avoid natural evaporation when chemicals are not in use.
- Avoid using chemicals as much as possible. When using chemicals, divide only required amount to a small plate from the container and use up it.

EXTERIOR PARTS

Be careful to the following points for plastic parts used in this unit.

- Use a piece of cleaning paper or cleaning cloth for cleaning plastic parts. Avoid using chemicals.
  Even if you have to use chemicals to clean heavy dirt, don't use paint thinner, ketone, nor alcohol.
- Insert the specific screws vertically to the part when installing a plastic part.
  Be careful not to tighten screws too much.

Caution
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Keep the temperature of the soldering iron around 350°C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

This unit uses unleaded solder.
Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

LF : LEAD FREE MARK
Be careful to the following points to solder or unsolder.

- Set the soldering iron tip temperature to 350°C approximately.
  If cannot control temperature, solder/unsolder at high temperature for a short time.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Be sure to control soldering iron tips used for unleaded solder and those for leaded solder so they are managed separately. Mixing unleaded solder and leaded solder will cause detachment phenomenon.

– JAPANESE –

各種薬品の取り扱いについて

現在使用されている薬品の中には揮発性の高い薬品もあります。
それらを不用意に取り扱い蒸発させてしまうと，環境や健康へ影響を与えたり，資源の無駄使いになります。
各種薬品は，下記の点に注意して取り扱ってください。

- 保管場所を定め，高温になったり直射日光の当たらない場所に密閉して保管してください。
- 小分け(ハンドラップ等)する数は必要最小限に留め，容器による自然蒸発を防いでください。
- 作業に使用しない時は，必ずキャップ等をして自然蒸発を防いでください。
- 薬品を使用する回数を極力少なくし，使用する場合は使用する量だけ容器より出して受け皿に残さないようにしてください。

樹脂系部品の取り扱いについて

本機に使用されている樹脂系の部品は，下記の点に注意して取り扱ってください。

- 清掃には薬品を使用せず，清掃紙や清掃布を使用してください。
  やむを得ず汚れがひどくて薬品を使用する場合は，シンナー，ケトン，エーテルは使用しないでください。
- 各部品の取り付けには指定されたねじを使用し，部品に対して垂直に取り付けてください。
  また，ねじを締め付ける時は，無理な力を加えないでください。

Caution
電池の交換は，正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は，取扱指示に従って処分してください。

サービス，点検時には次のことにご注意ください。

1. 注意事項をお守りください。
   サービスのとき特に注意を要する個所については，キャビネット，シャーシ，部品などにラベルや捺印で注意事項を表示しています。これらの注意書きおよび取扱説明書等の注意事項を必ずお守りください。
2. 指定部品のご使用を
   セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は，使用されていたものと同じ特性の部品を使用してください。特に回路図，部品表に⚠印で指定されている安全上重要な部品は必ず指定のものをご使用ください。
3. 部品の取付けや配線の引きまわしはもとどおりに
   安全上，チューブやテープなどの絶縁材料を使用したり，プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパによって発熱部品や高圧部品に接近しないよう配慮されていますので，これらは必ずもとどおりにしてください。
4. サービス後は安全点検を
   サービスのために取外したネジ，部品，配線がもとどおりになっているか，またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し，安全性が確保されていることを確認してください。
5. チップ部品交換時の注意
   - 取外した部品は再使用しないでください。
   - タンタルコンデンサのマイナス側は熱に弱いため交換時は注意してください。
6. フレキシブルプリント基板の取扱いについて
   - こて先温度を約350℃に設定して行ってください。
   - 同一パターンに何度もこて先を当てないでください。(3回以内)
   - パターンに力が加わらないよう注意してください。

無鉛半田について

本機には無鉛半田が使用されています。
無鉛半田を使用している基板には，無鉛(Lead Free)を意味するレッドフリーマークがプリントされています。
(**注意：**基板サイズによっては，無鉛半田を使用していてもレッドフリーマークがプリントされていないものがあります)

LF：レッドフリーマーク
無鉛半田は，下記の点に注意して使用してください。

- 半田こてのこて先温度は約350℃に設定してください。
  温度調節が無理な場合は，高温短時間で作業を行ってください。
  注意：半田こてを長く当てすぎると，基板のパターン(銅箔)がはがれてしまうことがありますので，注意してください。また，従来の半田よりも粘性が強いため，IC端子などが半田ブリッジしないように注意してください。
- 半田こてのこて先は，必ず無鉛半田用と有鉛半田用に分けて管理してください。
  無鉛半田と有鉛半田が混在すると剥離現象が発生してしまいます。

1. SERVICE NOTE

– ENGLISH –

1-1. PRECAUTION ON REPLACING THE SY-296 BOARD

Destination Data

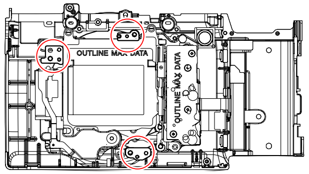
When you replace to the repairing board, the written destination data of repairing board also might be changed to original setting.

USB Serial No.

The set is shipped with a unique ID (USB Serial No.) written in it.
This ID has not been written in a new board for service, and therefore it must be entered after the board replacement.

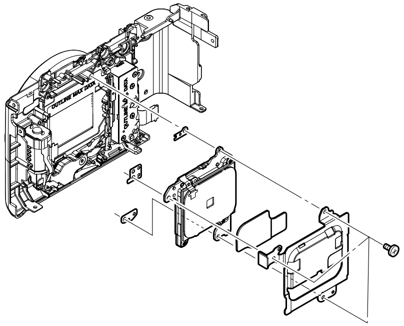
1-2. PRECAUTION ON REPLACING THE CABINET FRONT

Perform the following procedures for each of the three washers.

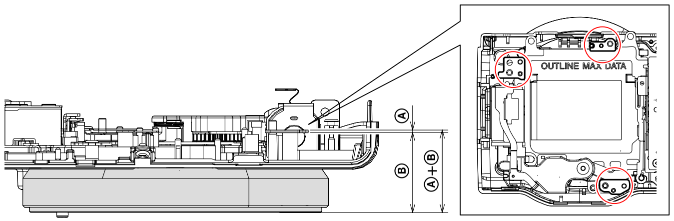


Note: Measure the dimensions before replacement of the Cabinet Front according to procedures (1) to (3).

(1) Remove the Imager Block Assy and the IM Adjust Washers (A, B, C).



(2) Measure the dimensions (Ⓐ) of the removed IM Adjust Washers.



(3) Measure the distance (Ⓑ) between the surface of the screw hole where the IM Adjust Washers were set and the surface of the E-Mount.
(4) Likewise, measure the dimensions (Ⓑ’) of each location where IM Adjust Washers of new Cabinet Front are installed.
(5) Calculate the dimension of (Ⓐ’) of new IM Adjust Washer by using the formula below, and select the washers.
Dimension (Ⓐ+Ⓑ) before replacement – Dimension (Ⓑ’) of new Cabinet Front
= Dimension (Ⓐ’) of IM Adjust Washer after replacement
(6) Assemble the imager, using the selected IM Adjust Washers.
(7) After assembling is completed, perform the test shooting and confirm that no blur is observed in the peripheral area of shot.

– JAPANESE –

1-1. SY-296基板交換時の注意

仕向けデータ

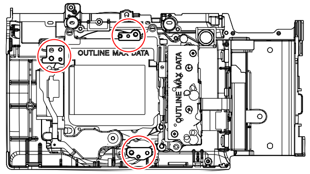
補修用基板と交換する時、補修用基板に書かれている仕向けデータは元の設定と違っている場合があります。

USBシリアルNo.

セットは、1台毎に異なる固有のID(USB Serial No.)を書き込んだ後、出荷されています。
新品の補修用基板には、このIDが書き込まれていないので，基板交換後にIDを入力する必要があります。

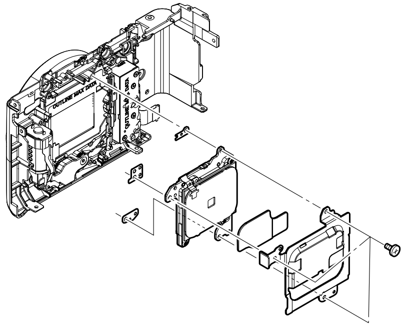
1-2. 前キャビネット交換時の注意

以下の手順は3箇所それぞれ行ってください。

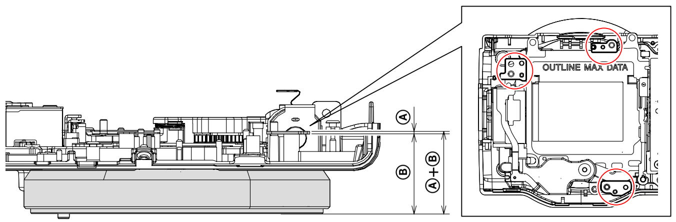


注意: 前キャビネットの交換を行う前に、手順(1)から(3)にて交換前の寸法を測定してください。

(1) イメージャ Assy、IM調整ワッシャ (A, B, C)を取り外してください。



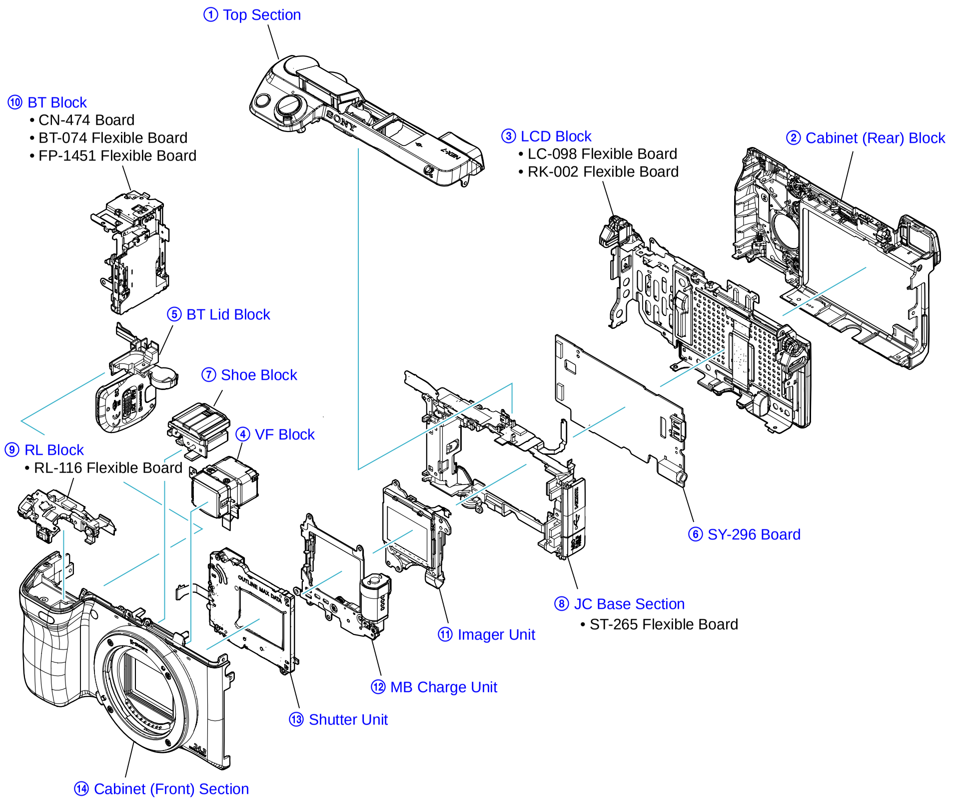
(2) 取り外したIM調整ワッシャの寸法(Ⓐ)を測定してください。



(3) IM調整ワッシャが取り付いていたビス穴端面からE-Mount端面までの寸法(Ⓑ)を測定してください。
(4) 新品の前キャビネットの各IM調整ワッシャ取り付け部についても同様に寸法(Ⓑ')を測定してください。
(5) 以下の式より新たに使用するIM調整ワッシャの寸法(Ⓐ')を算出し、ワッシャの選定を行ってください。
交換前の寸法(Ⓐ+Ⓑ) − 新前キャビネットの寸法(Ⓑ') = 交換後のIM調整ワッシャ寸法(Ⓐ')
(6) 選定したIM調整ワッシャを使用してイメージャを組み付けてください。
(7) 組立完成後、試し撮りを行い周辺ボケ等の不具合が無いことを確認してください。

IDENTIFYING PARTS

Follow the disassembly in the numerical order given.



Link | DISCHARGING OF THE CHARGING CAPACITOR | ACCESSORIES | ASSEMBLY

(ENGLISH)

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Color Indication of Appearance Parts
  Example:
  (SILVER) : Cabinet's Color
  (Silver) : Parts Color

(JAPANESE)

【使用上の注意】
- -XX, -Xは標準化部品のため, セットに付いている部品と異なる場合があります。
- ＊印の部品は常備在庫しておりません。
- ここに記載されている部品は, 補修用部品であるため, 回路図及びセットに付いている部品と異なる場合があります。

お願い

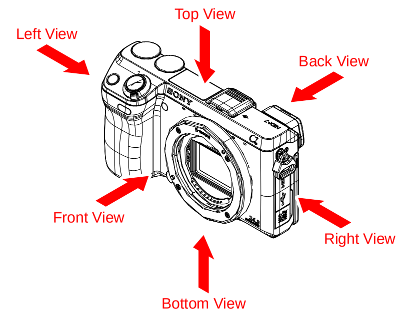
図面番号で部品を指定するときは基板名又はブロックを併せて指定してください。

⚠印の部品，または⚠印付の点線で囲まれた部品は，安全性を維持するために，重要な部品です。従って交換時は，必ず指定の部品を使用してください。

- 外装部品色表示
  例：
  (SILVER) ：セットの色を表す。
  (Silver) ：部品の色を表す。

- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  J : Japanese model
  JE : Tourist model
  KR : Korea model

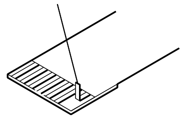
View Position



NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked of bent at the terminal.
  Do not insert the cable insufficiently nor crookedly.
- When remove a connector, don't pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, don't press down at wire of connector.
  It is possible that a wire is snapped.
- Do not apply excessive load to the gilded flexible board.

Cut and remove the part of gilt which comes off at the point.
(Be careful or some pieces of gilt may be left inside)

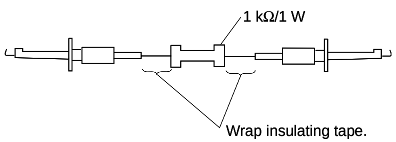


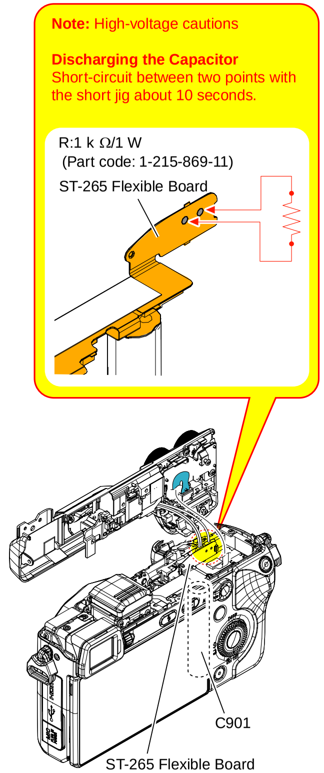
DISCHARGING OF THE CHARGING CAPACITOR (C901)

The charging capacitor is charged up to the maximum 330 V potential.
There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

Preparing the Short Jig

To preparing the short jig, a small clip is attached to each end of a resistor of 1 kΩ /1 W (1-215-869-11).
Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.

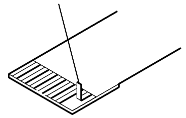




修理時の注意

- フラットケーブルおよびフレキシブル基板の端子面に欠け，折れ等がないことを確認する。
  また，コネクタへの接続は，差し込み不足や斜め差しにならないように注意する。
- コネクタを取り外す時に，線材部(極細)を持って引っ張ると断線する恐れがありますので，絶対に線材部(極細)を持って引っ張らないでください。
- 線材部(極細)を押さえながらコネクタを差し込むと，線材部(極細)が断線する恐れがありますので，絶対に線材部(極細)には負担をかけないでください。
- 金メッキされているフレキシブル基板には，強い負担をかけないでください。

先端の剥がれたメッキ部はカットして除去してください。
（メッキ破片がコネクタ内に残っている場合もあるので注意してください）

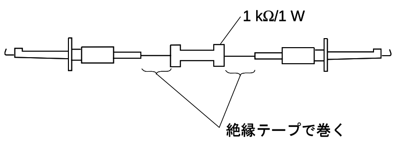


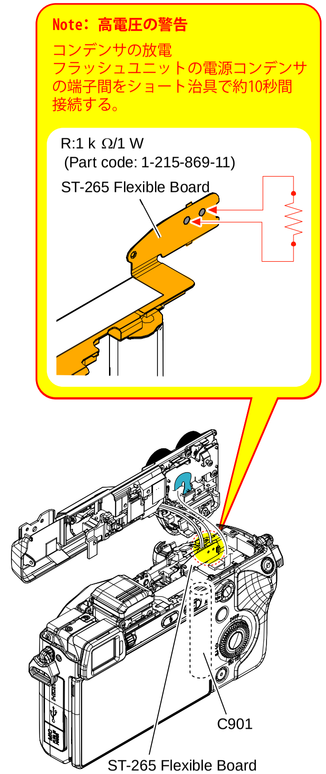
ストロボ用充電コンデンサ(C901)の放電

ストロボ用充電コンデンサは最大330Vの電圧で充電されています。
この高電圧で充電されたコンデンサに手を触れた場合，電気ショックを受けます。この高電圧には単にセットの電源を切っただけでは放電されず，残留しています。このため，下記の方法で残留電圧を放電してください。

ショート治具の準備

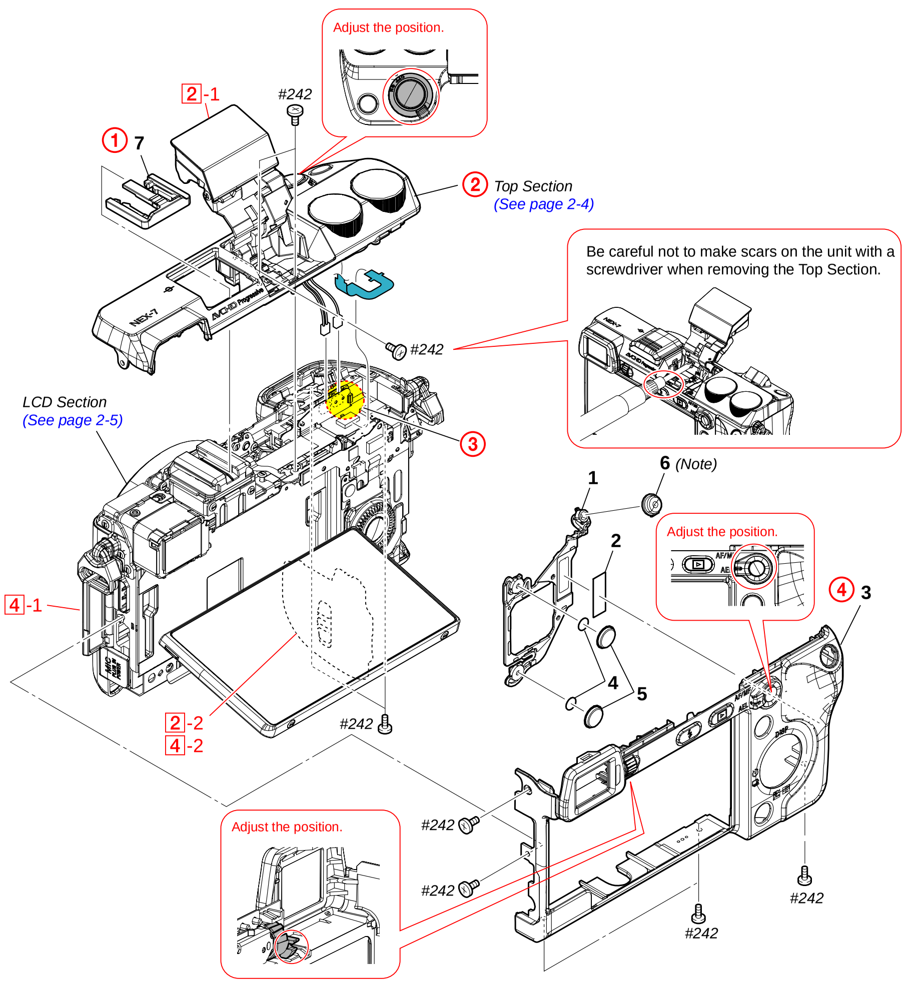
ショート治具は1kΩ/1W抵抗（1-215-869-11）小型のクリップを接続して作成します。
抵抗器は絶縁テープで完全に覆い電気ショックを受けないようにしてください。





2-1. EXPLODED VIEWS

2-1-1. REAR SECTION



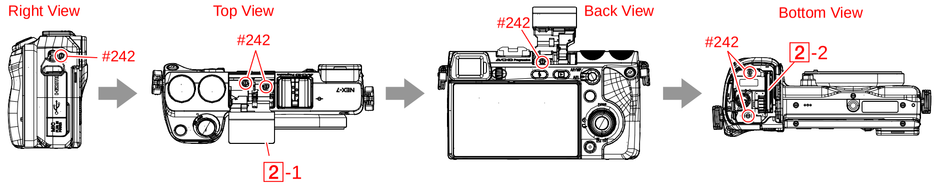
Ref. No.	Part No.	Description
1	4-300-399-01	BUTTON (SK) (600)
2	4-300-387-01	SHEET (SK BUTTON) (600)
3	X-2582-867-1	CABINET (REAR) ASSY (600)
4	4-300-405-01	SHEET (SK CAP) (600)
5	4-300-400-01	CAP (SK BUTTON) (600)

Ref. No.	Part No.	Description
6	4-292-101-01	BUTTON, REC (Note)
7	4-400-730-01	COVER (600), SHOE
#242	4-178-124-81	SPECIAL (M1.4 (D2.75))

DISASSEMBLY

1. Remove to numerical order (① to ④) in the left figure.

② #242 X 1 → Popup the Strobo (2-1) → #242 X 3 → Open the BT Lid (2-2) → #242 X 2

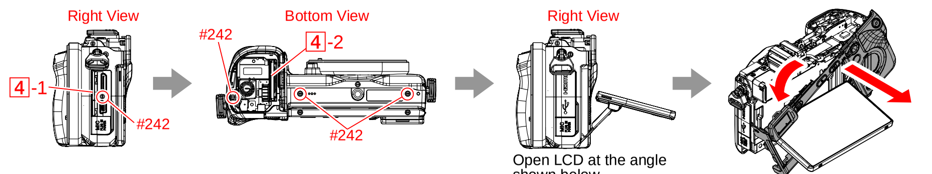


③

DISCHARGING OF THE CHARGING CAPACITOR

ストロボ用充電コンデンサの放電

④ Open the HDMI Lid (4-1) → #242 X 1 → Open the BT Lid (4-2) → #242 X 3

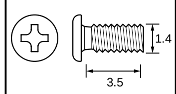


Open LCD at the angle shown below.

Remove Cabinet (Rear) Assy while turning it in the direction indicated by arrows.

Screw

#242: M1.4 X 3.5
(Black)
4-178-124-81



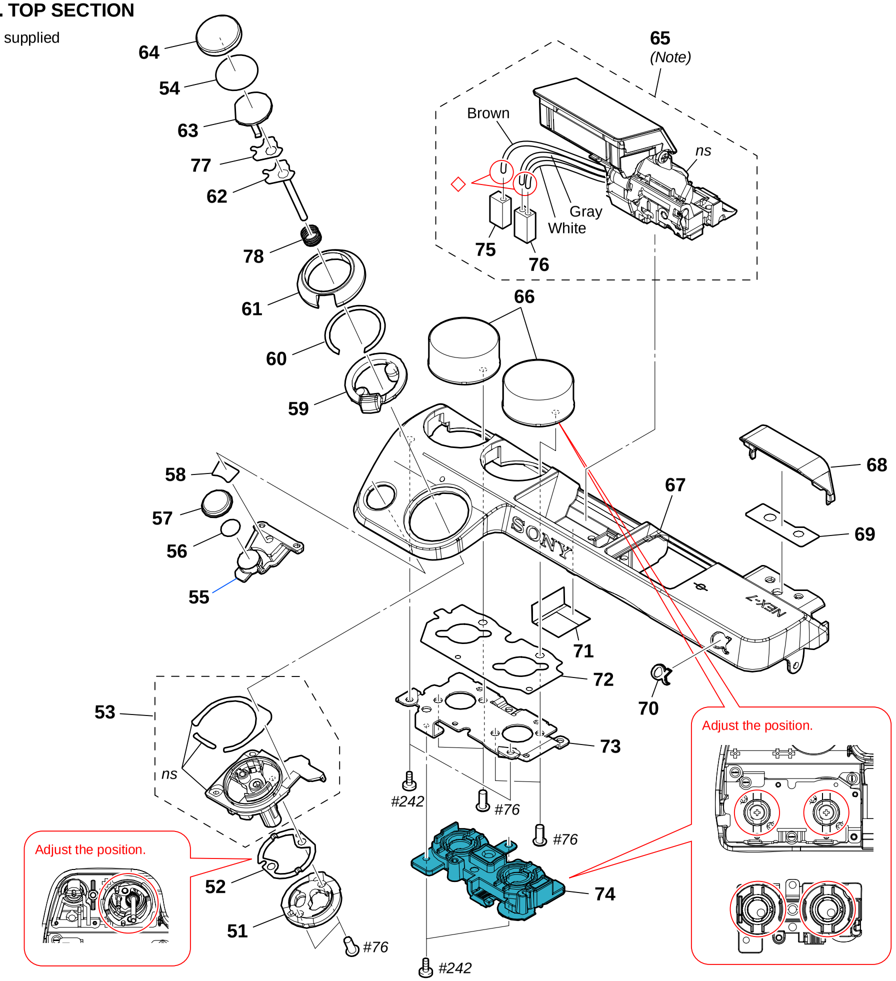
Note

Note: Refer to "Assembly-9:Installation Cautions of the Rec Button." when you assemble.

Note: 組立時は"Assembly-9:Installation Cautions of the Rec Button."を参照してください。

2-1-2. TOP SECTION

ns: not supplied



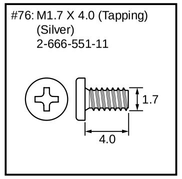
Ref. No.	Part No.	Description
51	4-300-360-01	SLIDER (PW) (600)
52	4-300-359-01	PLATE (PW) (600), CLICK
53	X-2583-801-1	BASE (GUIDE RL) (600) ASSY
54	4-186-500-01	SHEET, RL BUTTON ADHESIVE
55	4-300-372-01	BUTTON (FN) (600)
56	4-300-405-01	SHEET (SK CAP) (600)
57	4-300-400-01	CAP (SK BUTTON) (600)
58	4-300-364-01	SHEET (FN) (600), ADHESIVE
59	4-300-368-01	KNOB (PW) (600)
60	4-300-383-01	SHEET (PW KNOB) (600), ADHESIVE
61	4-300-367-01	CAP (PW RING) (600)
62	X-2582-857-1	GUIDE (RL) ASSY (600)
63	4-300-370-01	BUTTON (RL) (600)
64	4-300-369-01	CAP (RL) (600)
65	1-489-953-11	ST UNIT (75600)

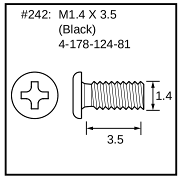
Ref. No.	Part No.	Description
66	X-2582-860-1	DIAL ASSY (600)
67	4-300-356-01	CABINET (UPPER) (600)
68	4-300-357-01	ORNAMENT (VF) (600)
69	4-300-362-01	SHEET (VF ORNAMENT) (600)
70	4-186-543-01	PLATE, LOGO
71	4-300-410-01	INSULTING SHEET (CAB TOP) (600)
72	4-410-556-01	SHEET (DIAL) (600)
73	4-300-408-01	PLATE (DIAL) (600)
74	1-489-939-11	SWITCH BLOCK, CONTROL (TD75600)
75	1-820-649-11	HOUSING, CONNECTOR 2P (Red)
76	1-820-649-21	HOUSING, CONNECTOR 2P (Yellow)
77	4-186-501-01	SHEET, RL GUIDE ADHESIVE
78	4-186-497-01	SPRING, RL
#76	2-666-551-11	SCREW, TAPPING, P2
#242	4-178-124-81	SPECIAL (M1.4 (D2.75))

DISASSEMBLY

1. The meaning of the sign in left figure is as follows. Be careful when it removes.
   ◇: Solder

Screw





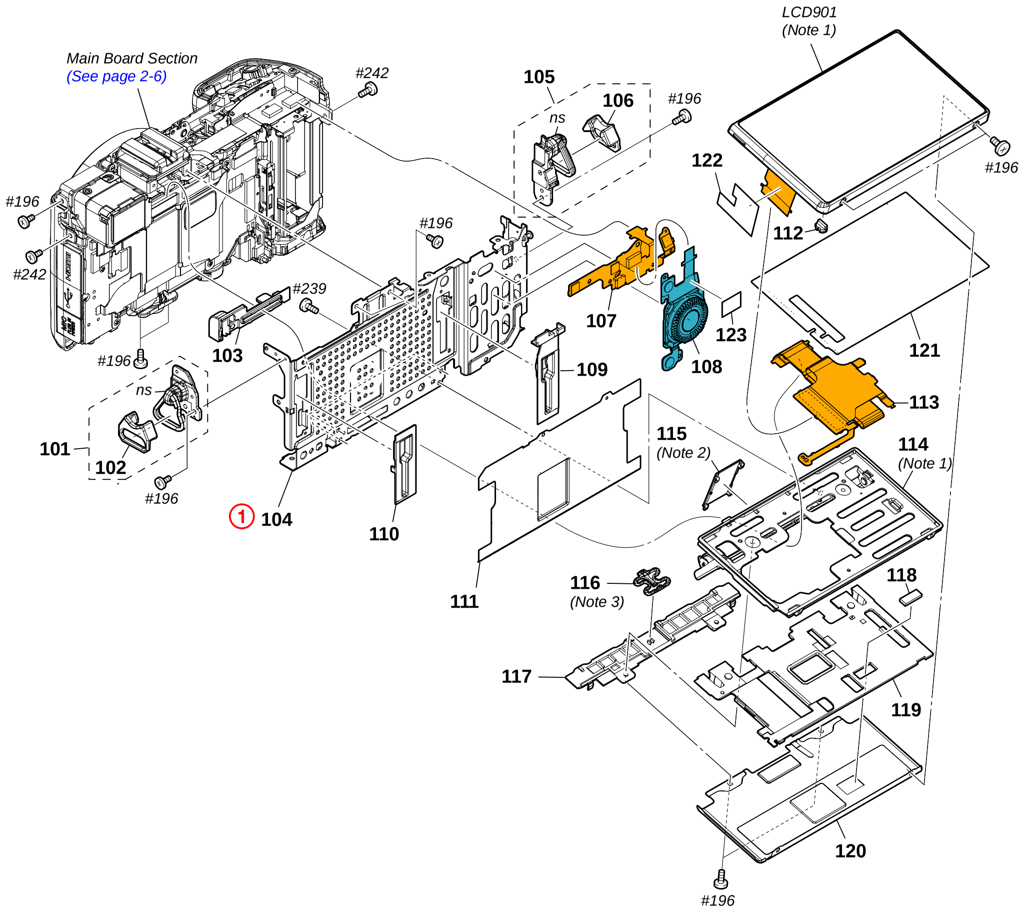
Note

Note: Refer to "Assembly-8:Installation Cautions of the ST Unit (75600)." when you assemble.

Note: 組立時は"Assembly-8:Installation Cautions of the ST Unit (75600)."を参照してください。

2-1-3. LCD SECTION

ns: not supplied



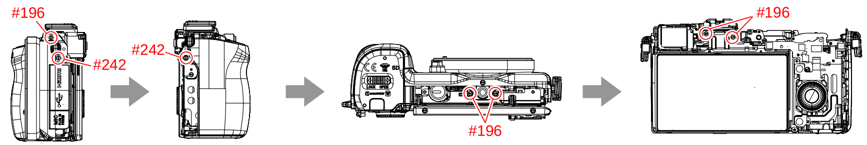
Ref. No.	Part No.	Description
101	X-2582-862-1	HOOK (L) ASSY (600), STRAP
102	4-293-878-01	EYELET TRIANGLE STOPPER
103	4-300-406-01	CAP (LC) (600), FLEXIBLE
104	4-300-373-01	FRAME (MAIN) (600)
105	X-2582-861-1	HOOK (G) ASSY (600), STRAP
106	4-293-878-01	EYELET TRIANGLE STOPPER
107	A-1847-878-A	RK-002 FLEXIBLE BOARD, COMPLETE
108	1-489-775-41	SWITCH BLOCK, CONTROL (600)
109	4-297-178-01	COVER (R) (600), HINGE
110	4-297-177-01	COVER (L) (600), HINGE
111	4-300-377-01	SHEET (MAIN FRAME) (600)
112	4-300-397-01	LIGHT (LC) (600), GUIDE,
113	A-1847-880-A	LC-098 FLEXIBLE BOARD, COMPLETE
114	X-2582-868-1	HINGE ASSY (600) (Note)
115	4-300-404-01	RETAINER (LC) (600), FLEXIBLE

Ref. No.	Part No.	Description
116	4-300-402-01	CLAW (LC), LOCK
117	4-300-403-01	HOLDER (LC) (600), LOCK
* 118	1-471-549-11	MAGNET (ND7.9X2.9X1.2)
119	4-300-401-01	CABINET (LC REAR) (600)
120	4-300-388-01	PLATE (LC REAR) (600)
121	4-300-376-01	SHEET (LC) (600), INTERCEPTION
122	4-416-468-01	SHEET (LC FLEXIBLE) (600)
123	4-419-209-01	TAPE (SW) (600)
LCD901	A-1857-130-A	LCD BLOCK ASSY (SERVICE) (Note)
#196	4-178-124-01	SPECIAL (M1.4 (D2.75))
#239	4-287-435-11	SCREW (M1.4 EUROPE) TYPE
#242	4-178-124-81	SPECIAL (M1.4 (D2.75))

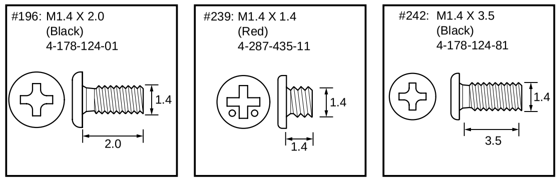
DISASSEMBLY

1. Remove to numerical order (①) in the left figure.

① #196X 1 → #242 X 2 → #196 X 4

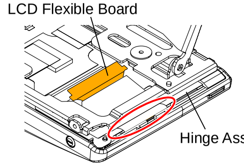


Screw

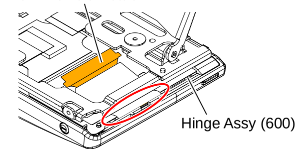


Note

Note 1: When treating the LCD Flexible Board, handle it with caution not to make scars on the LCD Flexible Board with the Hinge Assy (600).



Note 1: LCD Flexible Board を処理するときは、Hinge Assy (600) で LCD Flexible Board を傷つけないように注意してください。



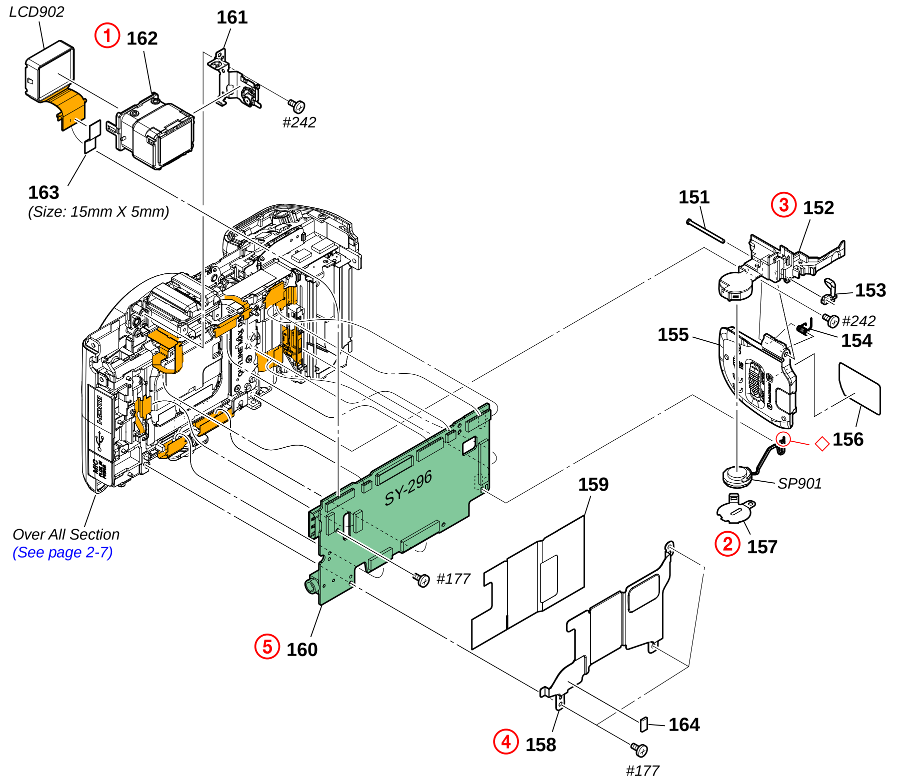
Note 2: Refer to "Assembly-6:Installation Cautions of the Flexible Retainer (LC) (600)." when you assemble.

Note 2: 組立時は"Assembly-6:Installation Cautions of the Flexible Retainer (LC) (600)."を参照してください。

Note 3: Refer to "Assembly-7:Installation Cautions of the Lock Claw (LC)." when you assemble.

Note 3: 組立時は"Assembly-7:Installation Cautions of the Lock Claw (LC)." を参照してください。

2-1-4. MAIN BOARD SECTION



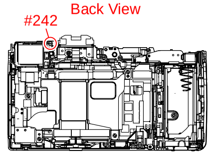
Ref. No.	Part No.	Description
151	4-186-476-01	SHAFT, BT LID
152	4-300-394-01	BASE (BT LID) (600)
153	4-300-396-01	LIGHT (MS) (600), GUIDE,
154	4-300-395-01	SPRING (BT LID OPEN) (600)
155	X-2582-866-1	LID ASSY (600), BT
156	4-410-824-01	LABEL (MS) (600)
157	4-300-398-01	PLATE (SP) (600), GROUND
158	4-300-380-01	PLATE (SY) (600), RADIATION
159	4-300-365-01	INSULATING SHEET (SY) (600)

Ref. No.	Part No.	Description
160	A-1853-412-A	SY-296 BOARD, COMPLETE (SERVICE)
161	X-2582-865-1	FRAME (VF) ASSY (600)
162	X-2582-570-2	VF ASSY
163	CAUTION	SHEET (930), PROTECTION
164	4-281-580-01	GASKET (SH)
LCD902	8-753-369-90	ECX331AA-1
SP901	1-858-343-31	LOUDSPEAKER (1.0CM)
#177	3-208-537-21	0+Z M1.4X2 NEW TORASUTA
#242	4-178-124-81	SPECIAL (M1.4 (D2.75))

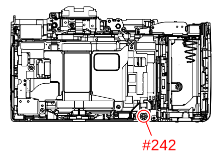
DISASSEMBLY

1. Remove to numerical order (① to ⑤) in the left figure.
2. The meaning of the sign in left figure is as follows. Be careful when it removes.
   ◇: Solder

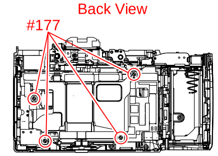
① #242 X 1



③ #242 X 1

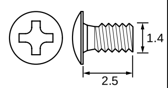


④ #177 X 4

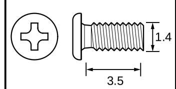


Screw

#177: M1.4 X 2.5 (Red) 3-208-537-21



#242: M1.4 X 3.5 (Black) 4-178-124-81



Note

CAUTION

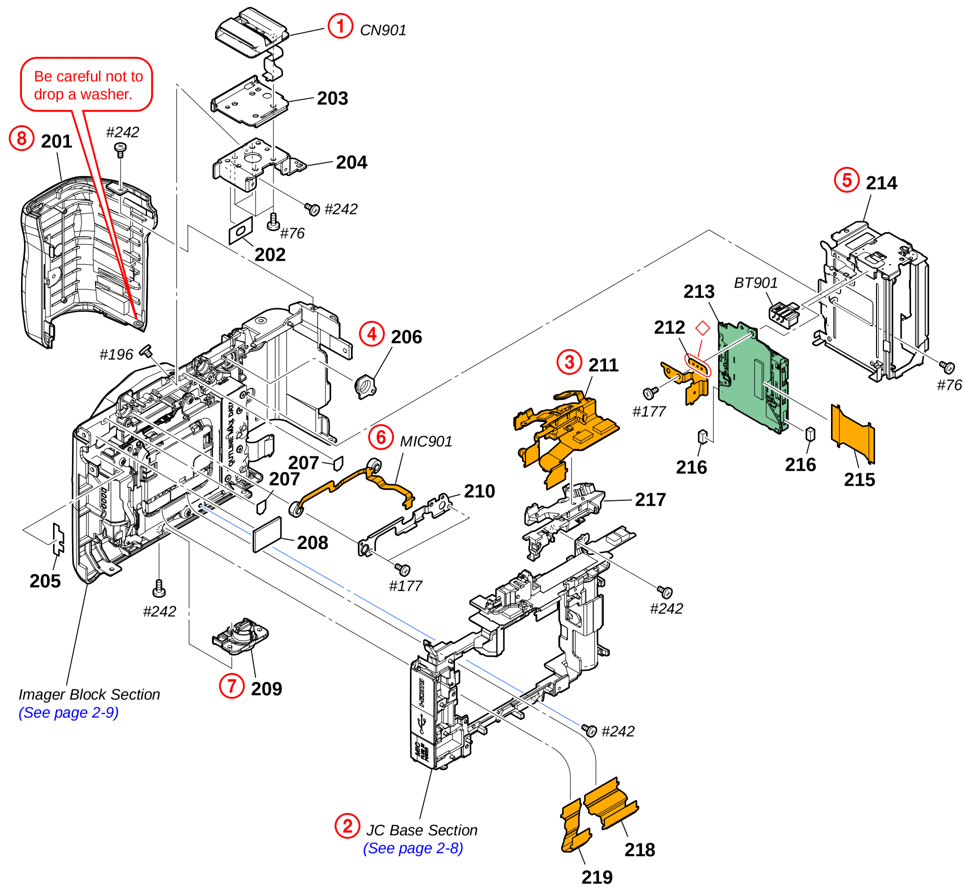
For the part of 163 : SHEET (930), PROTECTION, cut NON WOVEN (T0.25) (3-076-631-01) into the desired length and use it.

注意

163 : SHEET (930), PROTECTIONは、NON WOVEN (T0.25) (3-076-631-01) を切って使用すること。

Ver. 1.3 2012.04
The changed portions from
Ver. 1.2 are shown in blue.

2-1-5. OVER ALL SECTION

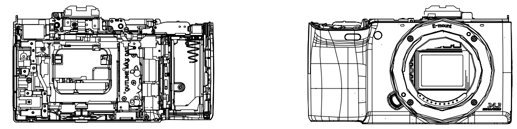


Ref. No.	Part No.	Description
201	X-2582-858-1	GRIP (FRONT) ASSY (600)
202	4-415-851-01	SHEET (SHOE FRAME) (600)
203	4-300-375-01	BASE (SHOE) (600)
204	4-300-374-01	FRAME (SHOE) (600)
* 205	4-413-025-01	TAPE (F CAB)
206	4-300-355-01	WINDOW (AF) (600)
207	4-300-361-01	SHEET (MIC HOLE) (600)
208	4-300-381-01	SHEET (VF) (600), RADIATION
209	4-292-160-11	SCREW, TRIPOD
210	4-300-378-01	PLATE (600), MICROPHONE HOLDER
211	A-1847-877-A	RL-116 FLEXIBLE BOARD, COMPLETE
212	1-884-154-21	BT-074 FLEXIBLE BOARD
213	A-1847-234-A	CN-474 BOARD, COMPLETE
214	X-2582-859-1	FRAME (BT) ASSY (600)
215	1-884-156-11	FP-1451 FLEXIBLE BOARD
216	4-281-580-01	GASKET (SH)
217	4-300-371-01	BASE (RL) (600)
218	1-880-964-11	IS-076 FLEXIBLE BOARD
219	1-880-963-11	IS-075 FLEXIBLE BOARD
⚠BT901	1-780-858-11	TERMINAL BOARD BATTERY
CN901	1-822-402-21	SHOE CONNECTOR
MIC901	1-542-905-11	MICROPHONE UNIT
#76	2-666-551-11	SCREW, TAPPING, P2
#177	3-208-537-21	0+Z M1.4X2 NEW TORASUTA
#196	4-178-124-01	SPECIAL (M1.4 (D2.75))
#242	4-178-124-81	SPECIAL (M1.4 (D2.75))

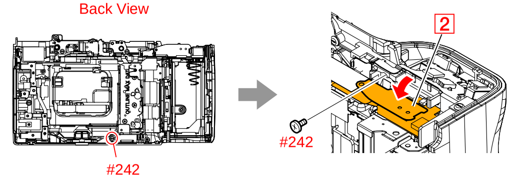
DISASSEMBLY

1. Remove to numerical order (① to⑧) in the left figure.
2. The meaning of the sign in left figure is as follows. Be careful when it removes.
   ◇: Solder

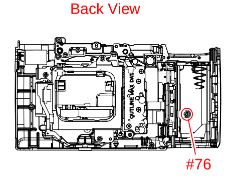
① #242 X 1→ #196 X 1



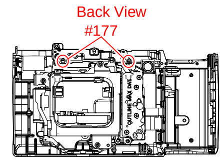
② #242 X 1 → Bring down the ST-265 Flexible Board (2) → #242 X 1



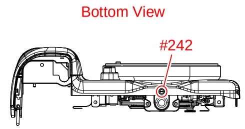
⑤ #76 X 1



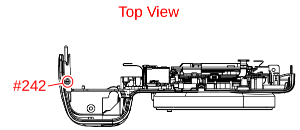
⑥ #177 X 2



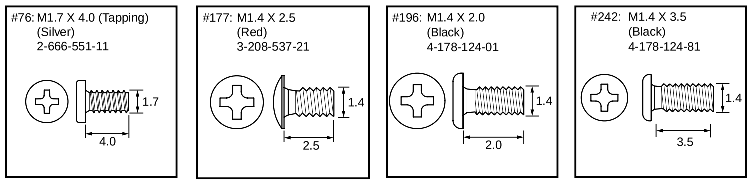
⑦ #242 X 1



⑧ #242 X 1

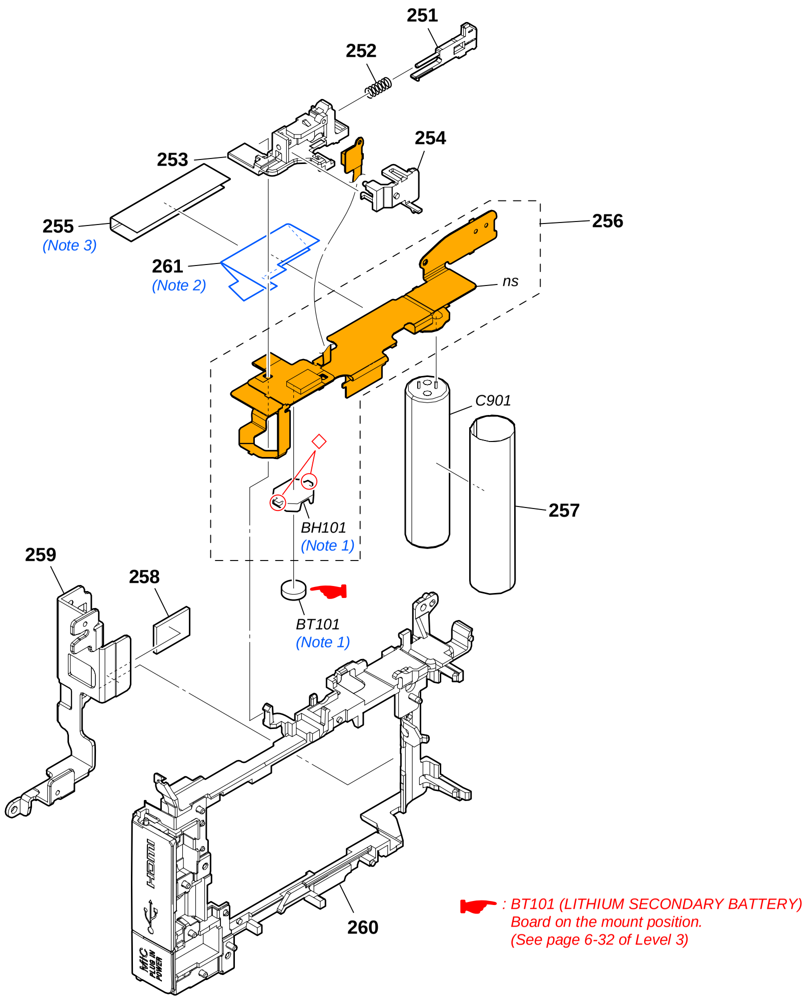


Screw



2-1-6. JC BASE SECTION

ns: not supplied



Ref. No.	Part No.	Description
251	4-300-392-01	ARM (ST DETECTION) (600)
252	4-300-393-01	SPRING (ST DETECTION) (600)
253	4-300-390-01	BASE (ST DETECTION) (600)
254	4-300-391-01	COVER (ST DETECTION) (600)
255	4-300-386-01	INSULATING SHEET (ST) (600) (Note 3)
256	A-1847-879-A	ST-265 FLEXIBLE BOARD, COMPLETE
257	4-300-389-01	SHEET (MAIN CONVERTER) (600)
258	4-283-251-01	LENS CUSHION (910), BOTTOM
259	4-300-379-01	PLATE (CN) (600), RADIATION
260	X-2582-863-1	BASE (JK) ASSY (600)
261	4-417-217-01	TAPE (ST FLEX) (600), SHIELD (Note 2)
⚠BH101	1-853-022-21	HOLDER, BATTERY (Note 1)
⚠BT101	1-756-134-15	BATTERY, LITHIUM (SECONDARY) (Note 1)
⚠C901	1-118-063-11	CAP, ALUMINIUM ELECT 78uF 330V

DISASSEMBLY

1. The meaning of the sign in left figure is as follows. Be careful when it removes.
   ◇: Solder

Note

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

注意

電池の交換は、正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。使用済み電池は、取扱指示に従って処分してください。

Note 1: Replace the battery holder (BH101) together when replacing the lithium storage battery (BT101) on the ST-265 Flexible board. (The battery holder removed once cannot be usedagain.)
When mounting these parts, mount new battery holder first and attach new lithium storage battery next.

Note 2: Refer to "Assembly-10: Installation Cautions of the Shield Tape (ST Flex) (600)." when you assemble.

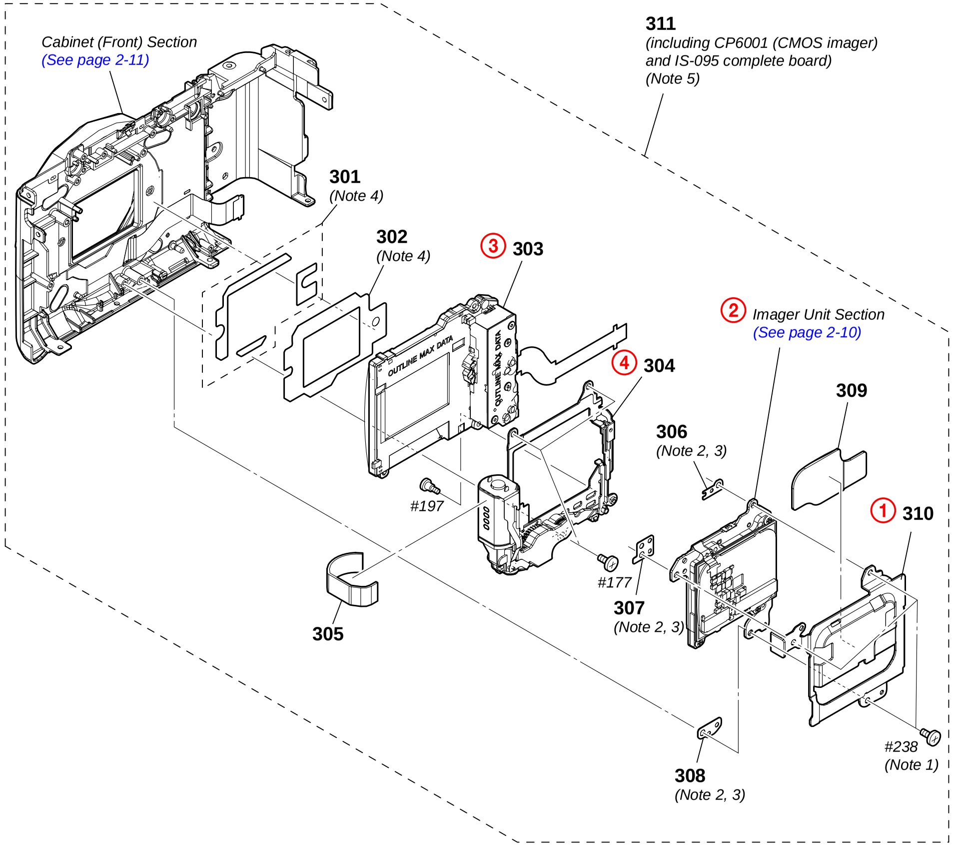
Note 3: Refer to "Assembly-11: Installation Cautions of the Insulating Sheet (ST) (600)." when you assemble.

Note 1: ST-265フレキシブル基板のリチウム蓄電池 (BT101) を交換する場合は バッテリホルダ (BH101) も同時に新品に交換してください。
(一度使用したバッテリホルダは再使用できません。)
部品取り付けの際は、先にバッテリホルダを取り付けてからリチウム蓄電池を装着してください。

Note 2: 組立時は "Assembly-10: Installation Cautions of the Shield Tape (ST Flex) (600)." を参照してください。

Note 3: 組立時は "Assembly-11: Installation Cautions of the Insulating Sheet (ST) (600)." を参照してください。

2-1-7. IMAGER BLOCK SECTION



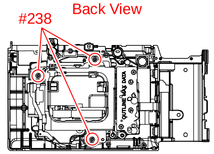
Ref. No.	Part No.	Description
301	4-281-196-01	SHEET, MASK SHEET ADHESIVE (Note 4)
302	4-277-282-11	MB SHEET (754), MASK (Note 4)
303	1-487-619-21	SHUTTER UNIT (H094)
304	A-1817-096-B	MB CHARGE UNIT (755)
305	4-288-878-01	SHEET, CUSHION (SH)
* 306	Selection Parts	IM WASHER (A), ADJUST (Note 2, 3)
* 307	Selection Parts	IM WASHER (B), ADJUST (Note 2, 3)
* 308	Selection Parts	IM WASHER (C), ADJUST (Note 2, 3)
309	4-292-165-01	SHEET, IMAGER ELECTRIC HEAT
310	4-300-303-01	PLATE (IM) (600), RADIATION

Ref. No.	Part No.	Description
311	A-1857-129-A	(FRONT) BLOCK ASSY (SERVICE) (including CP6001 (CMOS imager) and IS-095 complete board) (Note 5)
#177	3-208-537-21	0+Z M1.4X2 NEW TORASUTA
#197	4-185-990-01	MB SCREW, CHARGE UNIT FIXED
#238	4-287-436-01	SCREW (M1.7) (Note 1)

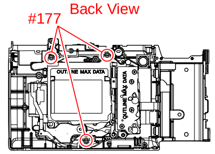
DISASSEMBLY

1. Remove to numerical order (① to ④) in the left figure.

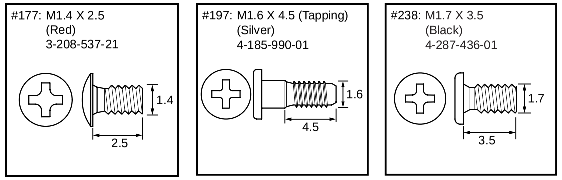
① #238 X 3



③ #177 X 3



Screw



Note

Note 1: Refer to "Assembly-1: Screw tightening sequence when assembling the Heat Sink (IM).".

Note 2: The IM adjust washers (A, B, C) differ in thickness.
Make sure to return the removed IM adjust washers to original places.
When replacing IM adjust washers, refer to "2-2. SELECTION PARTS" on page 2-12.
If the original state cannot be restored due to loss of the IM adjust washer, for example, replace the Mount Block Assy (Service).

Note 3: Refer to "Assembly-2: IM Adjust Washer (A, B, C) putting position" when you assemble.

Note 4: Refer to "Assembly-4: Method of attachment of the MB Mask Sheet (754)" when you assemble.

Note 5: Precautions for Replacement of the Mount Block Assy Service
As Mount Block Assy Service may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

Note 1: "Assembly-1: Screw tightening sequence when assembling the Heat Sink (IM)."を参照してください。

Note 2: IM調整ワッシャ (A, B, C)は，それぞれ厚さが異なります。
取り外したIM調整ワッシャは，必ず元の位置に戻してください。
また，IM調整ワッシャを交換する際は，2-12ページの "2-2. SELECTION PARTS"を参照してください。
IM adjust washerを紛失するなどして元の状態に戻せなくなった場合は，Mount Block Assy (Service) を交換してください。

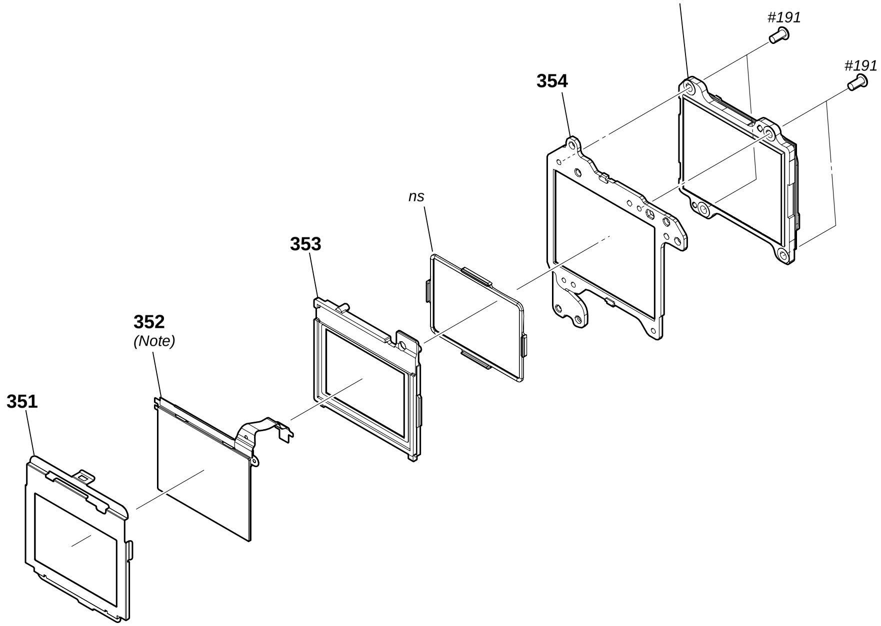
Note 3: 組立時は"Assembly-2: IM Adjust Washer (A, B, C) putting position"を参照してください。

Note 4: 組立時は"Assembly-4: Method of attachment of the MB Mask Sheet (754)"を参照してください。

Note 5: **マウントブロックAssy サービス交換時の注意**
マウントブロックAssy サービスは構造上，静電気により破壊される恐れがあるため，MOS ICと同様に注意して取り扱ってください。
また，受光部にはゴミの付着，および強い光がはいることのないように注意してください。

2-1-8. IMAGER UNIT SECTION

ns: not supplied

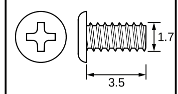


Ref. No.	Part No.	Description
351	4-259-691-01	IM PLATE (755), GLASS RETAINER
352	A-1817-089-A	IM IR GLASS ASSY (755) (Note)
353	4-299-579-01	IM PLATE (756), SPACE
354	4-299-578-01	IM PLATE (756), IMAGER

Ref. No.	Part No.	Description
#191	4-188-735-01	SCREW (M1.7)

Screw

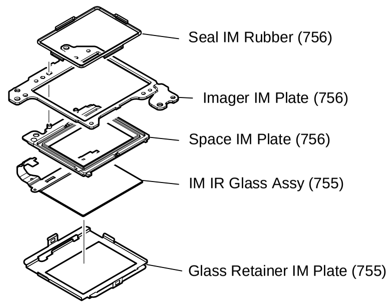
#191: M1.7 X 3.5 (Tapping)
(Black)
4-188-735-01



Note

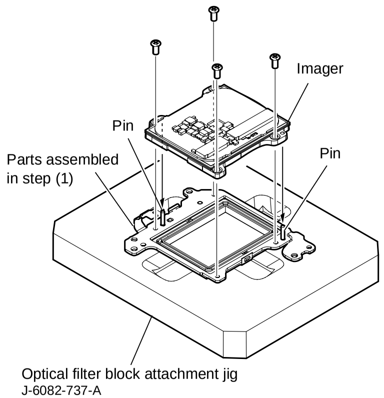
Note: Refer to the following when assembling the Optical Filter Block and the Imager.

(1) Attach the IM IR Glass Assy (755), Space IM Plate (756), Glass Retainer IM Plate (755), and Seal IM Rubber (756) to the Imager IM Plate (756).



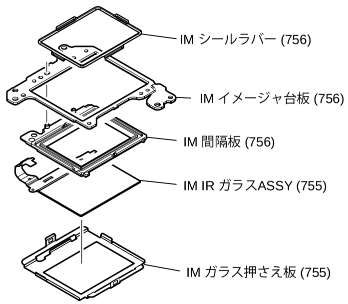
(2) Set the parts assembled in step (1) and the Imager onto the optical filter block attachment jig (J-6082-737-A) while aligning them with two pins.

(3) Secure the Imager with four screws.



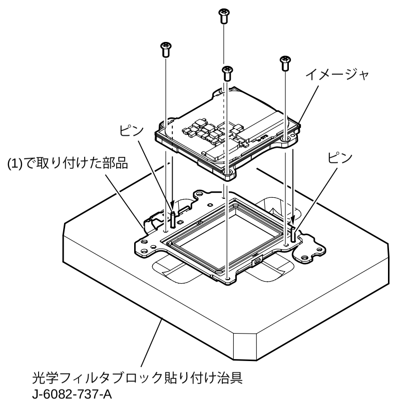
Note: IM IR ガラスASSYとイメージャを組み立てる際は、下記を参照してください。

(1) IM イメージャ台板(756)に、IM IR ガラスASSY (755)、IM 間隔板(756)、IM ガラス押さえ板 (755)、IMシールラバー (756)を取り付ける。

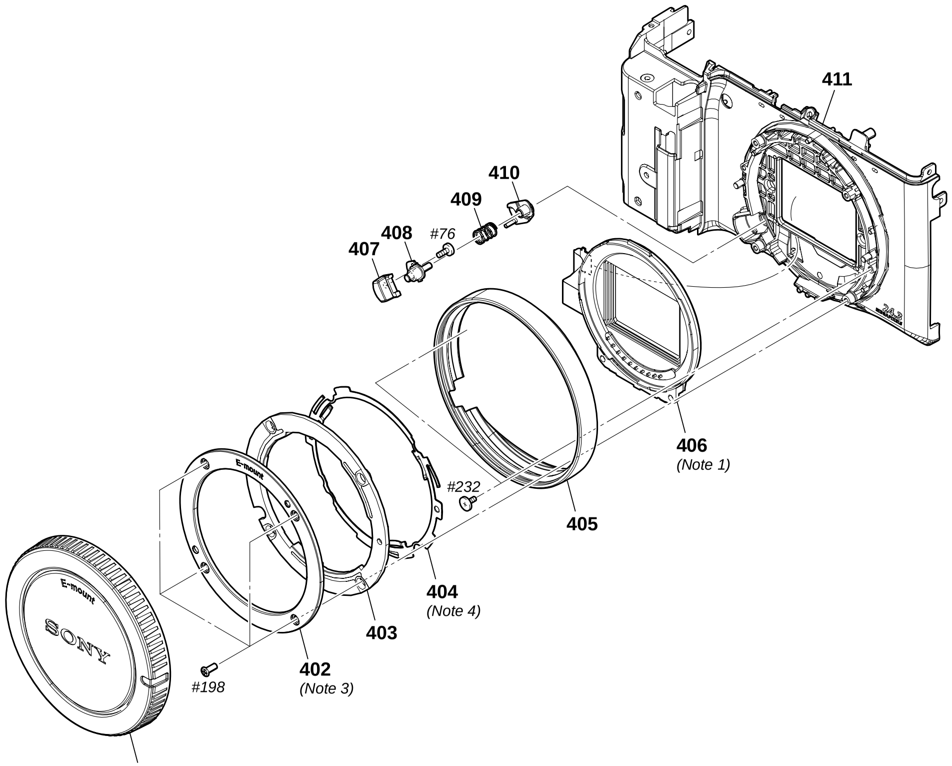


(2) ピン2箇所で位置を合わせて、(1)で取り付けた部品とイメージャを、光学フィルタブロック貼り付け治具(J-6082-737-A)にセットする。

(3) ねじ4本でイメージャを固定する。



2-1-9. CABINET (FRONT) SECTION

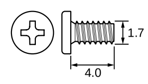


Ref. No.	Part No.	Description
401	4-188-536-01	CAP, BODY (Note 2)
402	4-283-999-02	MB N PLATE A (754) (Note 3)
403	4-284-623-01	MB N PLATE (B) 755
* 404	4-185-963-01	MB N PLATE SP (Note 4)
* 405	4-186-539-01	RING, ORNAMENTAL
406	A-1773-802-A	MB CONTACT UNIT, N (Note 1)
* 407	4-186-534-01	BUTTON, L LOCK
408	X-2581-299-1	PIN ASSY (410), L LOCK
* 409	4-186-538-01	SPRING, LENS LOCK
* 410	4-186-536-01	HOLDER, L LOCK

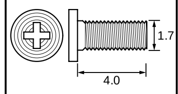
Ref. No.	Part No.	Description
411	4-300-363-01	CABINET (FRONT) (600)
#76	2-666-551-11	SCREW, TAPPING, P2
#198	4-186-545-01	SCREW, 0+Z M1.7 SG (SPIN)
#232	4-287-437-01	SPECIAL (M1.7X2.5 (D4X0.5))

Screw

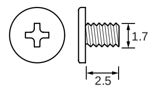
#76: M1.7 X 4.0 (Tapping)
(Silver)
2-666-551-11



#198: M1.7 X 4.0
(Silver)
4-186-545-01

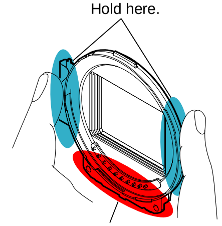


#232: M1.7 X 2.5
(Silver)
4-287-437-01

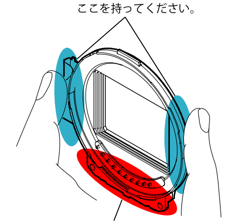


Note

Note 1: **Hold the N MB Contact Unit at the center of both sides.**



Note 1: N MB Contact Unitの両側の中央部を持ってください。



Note 2: The CABINET (FRONT) BLOCK ASSY (SRVICE) inncludes a protective BODY CAP.
This part is supplied only with the CABINET (FRONT) BLOCK ASSY (SRVICE).

Note 2: サービス用キャビフロント組立には保護用のボディキャップが含まれます。
この部品はサービス用キャビフロント組立のみに付属されます。

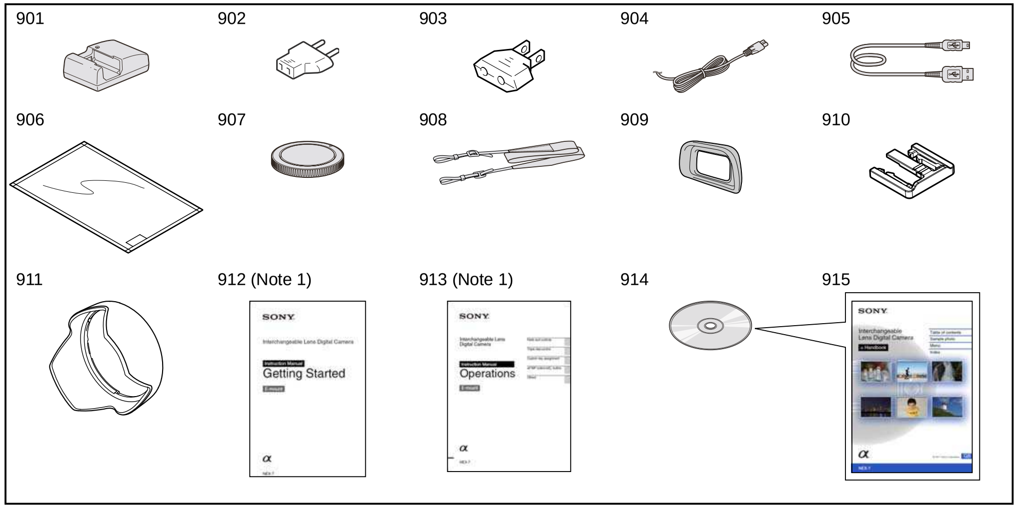
Note 3: Refer to "Assembly-3: Screw tightening sequence when assembling the MB N Plate A (754)."

Note 3: "Assembly-3: Screw tightening sequence when assembling the MB N Plate A (754)." を参照してください。

Note 4: Refer to "Assembly-5: Apply grease on the MB N Plate SP."

Note 4: "Assembly-5: Apply grease on the MB N Plate SP." を参照してください。

ACCESSORIES



Ref. No.	Part No.	Description
901	⚠ 1-487-907-11	Battery charger (BC-VW1) (J)
901	⚠ 1-487-907-21	Battery charger (BC-VW1) (US, CND)
901	⚠ 1-487-907-41	Battery charger (BC-VW1) (EXCEPT US, CND, J)
902	⚠ 1-569-007-12	Conversion (2P) Adaptor (JE)
903	⚠ 1-569-008-33	Conversion (2P) Adaptor (E (EXCEPT PAL))
904	⚠ 1-832-121-51	Power cord (mains lead) (CH)
904	⚠ 1-837-421-11	Power cord (mains lead) (UK, E (PAL))
904	⚠ 1-837-422-11	Power cord (mains lead) (JE)
904	⚠ 1-837-427-11	Power cord (mains lead) (AEP, E (EXCEPT PAL))
904	⚠ 1-837-428-11	Power cord (mains lead) (KR)
904	⚠ 1-837-429-11	Power cord (mains lead) (AUS)
905	1-837-287-21	USB cable
906	4-410-953-01	Cleaning Cloth
907	4-188-536-01	Body cap
908	4-411-276-01	Shoulder strap
909	4-295-853-01	Eyepiece cup
910	4-400-730-01	Accessory shoe cap
911	4-159-703-02	Lens hood (NEX-7K)
912	4-299-175-01	Instruction Manual (Getting Started) (JAPANESE) (Note 1)
912	4-299-175-11	Instruction Manual (Getting Started) (ENGLISH) (Note 1)
* 912	4-299-175-21	Instruction Manual (Getting Started) (FRENCH, ITALIAN) (Note 1)
* 912	4-299-175-31	Instruction Manual (Getting Started) (SPANISH, PORTUGUESE) (Note 1)
* 912	4-299-175-41	Instruction Manual (Getting Started) (GERMAN, DUTCH) (Note 1)
* 912	4-299-175-51	Instruction Manual (Getting Started) (TRADITIONAL CHINESE, SIMPLIFIED CHINESE) (Note 1)
* 912	4-299-175-61	Instruction Manual (Getting Started) (RUSSIAN, UKRAINIAN) (Note 1)
* 912	4-299-175-71	Instruction Manual (Getting Started) (ARABIC, PERSIAN) (Note 1)
912	4-299-175-81	Instruction Manual (Getting Started) (KOREAN) (Note 1)
912	4-299-175-91	Instruction Manual (Getting Started) (SIMPLIFIED CHINESE) (Note 1)
* 912	4-299-176-11	Instruction Manual (Getting Started) (POLISH) (Note 1)
* 912	4-299-177-11	Instruction Manual (Getting Started) (HUNGARIAN) (Note 1)
* 912	4-299-177-21	Instruction Manual (Getting Started) (SLOVAK) (Note 1)
* 912	4-299-177-31	Instruction Manual (Getting Started) (CZECH) (Note 1)
* 912	4-299-177-41	Instruction Manual (Getting Started) (SWEDISH) (Note 1)
* 912	4-299-177-51	Instruction Manual (Getting Started) (FINNISH) (Note 1)
* 912	4-299-177-61	Instruction Manual (Getting Started) (NORWEGIAN) (Note 1)
* 912	4-299-177-71	Instruction Manual (Getting Started) (DANISH) (Note 1)
* 912	4-299-177-81	Instruction Manual (Getting Started) (THAI) (Note 1)
* 912	4-299-177-91	Instruction Manual (Getting Started) (INDONESIAN) (Note 1)
913	4-408-688-01	Instruction Manual (Operations) (JAPANESE) (Note 1)
913	4-408-688-11	Instruction Manual (Operations) (ENGLISH) (Note 1)
* 913	4-408-688-21	Instruction Manual (Operations) (FRENCH, ITALIAN) (Note 1)
* 913	4-408-688-31	Instruction Manual (Operations) (SPANISH, PORTUGUESE) (Note 1)
* 913	4-408-688-41	Instruction Manual (Operations) (GERMAN, DUTCH) (Note 1)
* 913	4-408-688-51	Instruction Manual (Operations) (TRADITIONAL CHINESE, SIMPLIFIED CHINESE) (Note 1)
* 913	4-408-688-61	Instruction Manual (Operations) (RUSSIAN, UKRAINIAN) (Note 1)
* 913	4-408-688-71	Instruction Manual (Operations) (ARABIC, PERSIAN) (Note 1)
913	4-408-688-81	Instruction Manual (Operations) (KOREAN) (Note 1)
913	4-408-688-91	Instruction Manual (Operations) (SIMPLIFIED CHINESE) (Note 1)
* 913	4-408-690-11	Instruction Manual (Operations) (POLISH) (Note 1)
* 913	4-408-691-11	Instruction Manual (Operations) (HUNGARIAN) (Note 1)
* 913	4-408-691-21	Instruction Manual (Operations) (SLOVAK) (Note 1)
* 913	4-408-691-31	Instruction Manual (Operations) (CZECH) (Note 1)
* 913	4-408-691-41	Instruction Manual (Operations) (SWEDISH) (Note 1)
* 913	4-408-691-51	Instruction Manual (Operations) (FINNISH) (Note 1)
* 913	4-408-691-61	Instruction Manual (Operations) (NORWEGIAN) (Note 1)
* 913	4-408-691-71	Instruction Manual (Operations) (DANISH) (Note 1)
* 913	4-408-691-81	Instruction Manual (Operations) (THAI) (Note 1)
* 913	4-408-691-91	Instruction Manual (Operations) (INDONESIAN) (Note 1)
914	4-299-180-01	CD-ROM "Application Software for α camera" "α Handbook"
* 915	4-297-558-01	α Handbook (JAPANESE) (Note 2)
* 915	4-297-558-11	α Handbook (ENGLISH) (Note 2)
* 915	4-297-558-21	α Handbook (FRENCH) (Note 2)
* 915	4-297-558-31	α Handbook (ITALIAN) (Note 2)
* 915	4-297-558-41	α Handbook (SPANISH) (Note 2)
* 915	4-297-558-51	α Handbook (PORTUGUESE) (Note 2)
* 915	4-297-558-61	α Handbook (GERMAN) (Note 2)
* 915	4-297-558-71	α Handbook (DUTCH) (Note 2)
* 915	4-297-558-81	α Handbook (TRADITIONAL CHINESE) (Note 2)
* 915	4-297-558-91	α Handbook (SIMPLIFIED CHINESE) (Note 2)
* 915	4-297-560-11	α Handbook (RUSSIAN) (Note 2)
* 915	4-297-560-21	α Handbook (ARABIC) (Note 2)
* 915	4-297-560-31	α Handbook (PERSIAN) (Note 2)
* 915	4-297-560-41	α Handbook (KOREAN) (Note 2)
* 915	4-297-560-51	α Handbook (POLISH) (Note 2)
* 915	4-297-560-61	α Handbook (CZECH) (Note 2)
* 915	4-297-560-71	α Handbook (HUNGARIAN) (Note 2)
* 915	4-297-560-81	α Handbook (SLOVAK) (Note 2)
* 915	4-297-560-91	α Handbook (SWEDISH) (Note 2)
* 915	4-297-562-11	α Handbook (FINNISH) (Note 2)
* 915	4-297-562-21	α Handbook (NORWEGIAN) (Note 2)
* 915	4-297-562-31	α Handbook (DANISH) (Note 2)
* 915	4-297-562-41	α Handbook (THAI) (Note 2)
* 915	4-297-562-51	α Handbook (UKRAINIAN) (Note 2)

(Note 1)

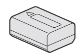
(Only for destination Japanese model)
日本語，英語，韓国語，中国語のみ部品供給可能です。

(Note 2)

The CD-ROM supplied contains all of language version of the α Handbook (PDF) for printing.
- The printed matter is not supplied. If required, please order it with the part number below.
- (Only for destination Japanese model)
日本国内については日本語のみが印刷での部品供給可能です。

This item is supplied with the unit as an accessory, but is not prepared as a service part.

951



Ref. No.	Part No.	Description
951	⚠ (Not supplied)	Rechargeable battery pack (NP-FW50)

2-2. SELECTION PARTS

Ref. No.306

Select the optimum thickness of washer.

Part No.	Description
*4-185-995-01	IM WASHER (A), ADJUST (t = 0.05)
*4-185-995-11	IM WASHER (A), ADJUST (t = 0.1)
*4-185-995-21	IM WASHER (A), ADJUST (t = 0.15)
*4-185-995-31	IM WASHER (A), ADJUST (t = 0.2)
*4-185-995-41	IM WASHER (A), ADJUST (t = 0.25)
*4-185-995-51	IM WASHER (A), ADJUST (t = 0.3)
*4-185-995-61	IM WASHER (A), ADJUST (t = 0.35)
*4-185-995-71	IM WASHER (A), ADJUST (t = 0.4)
*4-185-995-81	IM WASHER (A), ADJUST (t = 0.45)
*4-185-995-91	IM WASHER (A), ADJUST (t = 0.495)

Ref. No.307

Select the optimum thickness of washer.

Part No.	Description
*4-185-998-01	IM WASHER (B), ADJUST (t = 0.05)
*4-185-998-11	IM WASHER (B), ADJUST (t = 0.1)
*4-185-998-21	IM WASHER (B), ADJUST (t = 0.15)
*4-185-998-31	IM WASHER (B), ADJUST (t = 0.2)
*4-185-998-41	IM WASHER (B), ADJUST (t = 0.25)
*4-185-998-51	IM WASHER (B), ADJUST (t = 0.3)
*4-185-998-61	IM WASHER (B), ADJUST (t = 0.35)
*4-185-998-71	IM WASHER (B), ADJUST (t = 0.4)
*4-185-998-81	IM WASHER (B), ADJUST (t = 0.45)
*4-185-998-91	IM WASHER (B), ADJUST (t = 0.495)

Ref. No.308

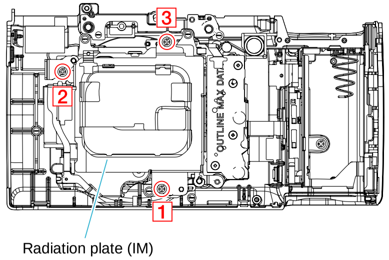
Select the optimum thickness of washer.

Part No.	Description
*4-185-999-01	IM WASHER (C), ADJUST (t = 0.05)
*4-185-999-11	IM WASHER (C), ADJUST (t = 0.1)
*4-185-999-21	IM WASHER (C), ADJUST (t = 0.15)
*4-185-999-31	IM WASHER (C), ADJUST (t = 0.2)
*4-185-999-41	IM WASHER (C), ADJUST (t = 0.25)
*4-185-999-51	IM WASHER (C), ADJUST (t = 0.3)
*4-185-999-61	IM WASHER (C), ADJUST (t = 0.35)
*4-185-999-71	IM WASHER (C), ADJUST (t = 0.4)
*4-185-999-81	IM WASHER (C), ADJUST (t = 0.45)
*4-185-999-91	IM WASHER (C), ADJUST (t = 0.495)

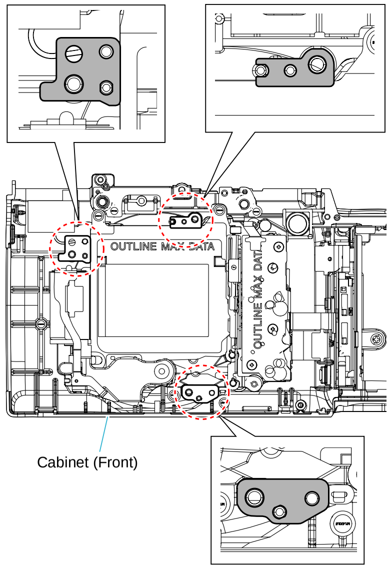
3. ASSEMBLY

3-1. ASSEMBLY

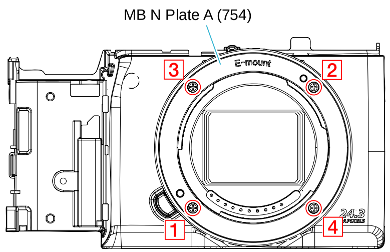
Assembly-1: Screw tightening sequence when assembling the Heat Sink (IM).



Assembly-2: IM Adjust Washer (A, B, C) putting position.

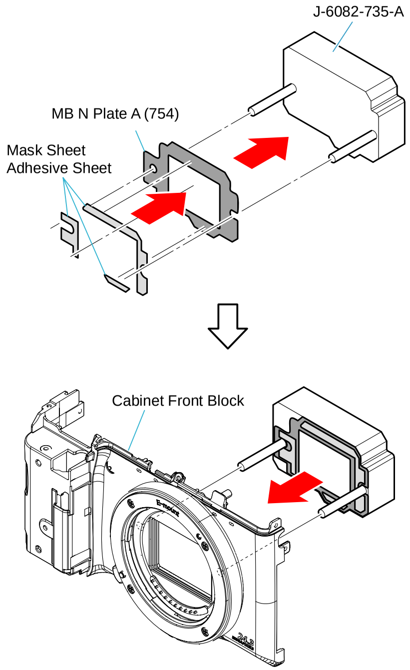


Assembly-3: Screw tightening sequence when assembling the MB N Plate A (754).

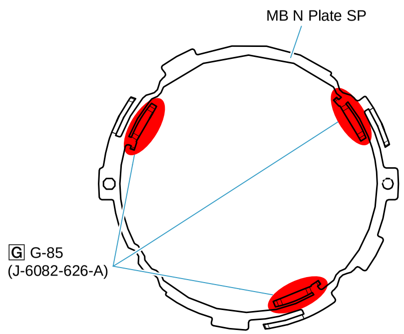


Assembly-4: Method of attachment of MB Mask Sheet (754).

Note: There should not be any misalignment when attaching MB Mask Sheet (754).

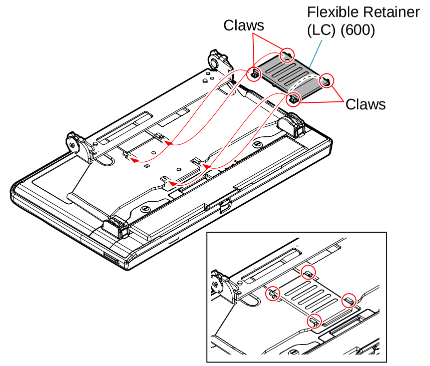


Assembly-5: Apply grease on the MB N Plate SP.



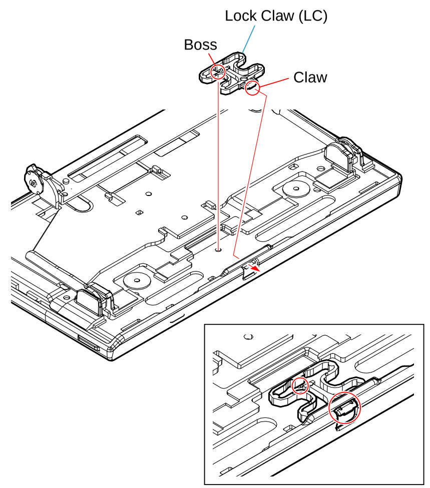
Assembly-6: Installation Cautions of the Flexible Retainer (LC) (600).

Install the Flexible Retainer (LC) (600) while inserting four claws.

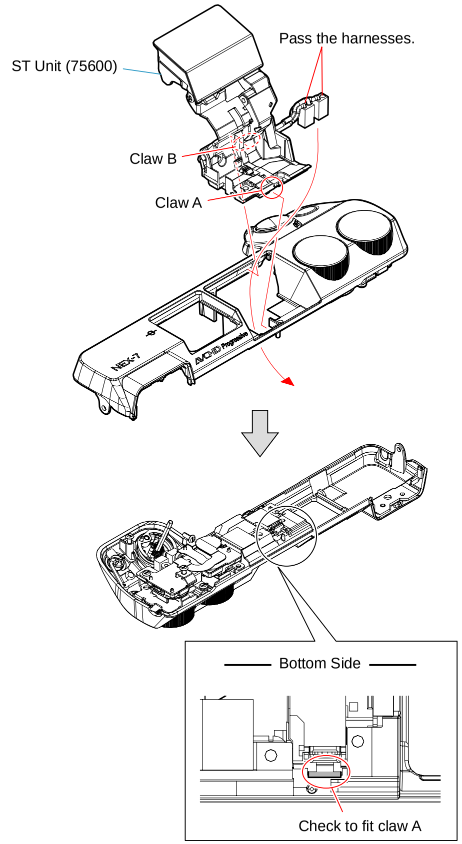


Assembly-7: Installation Cautions of the Lock Claw (LC).

Install the lock Claw (LC) while inserting claw and boss.

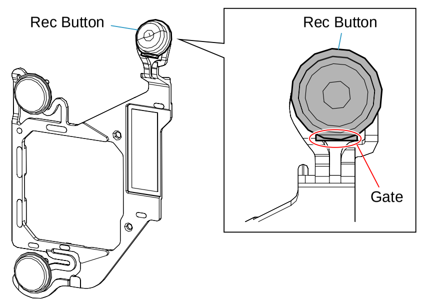


Assembly-8: Installation Cautions of the ST Unit (75600).



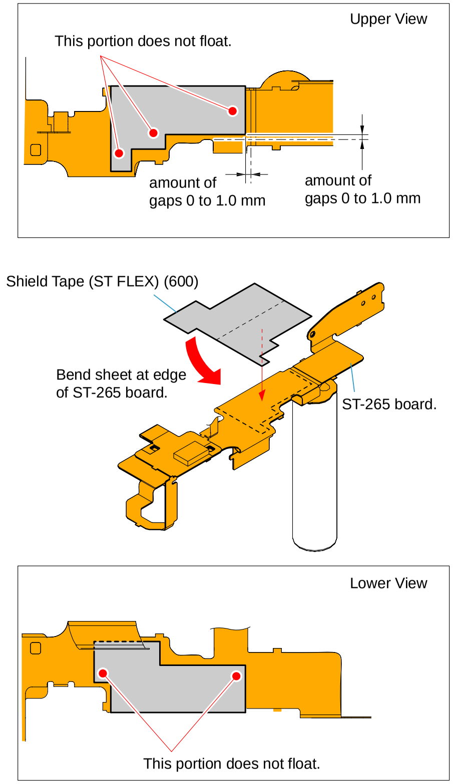
Assembly-9: Installation Cautions of the Rec Button.

Install the Rec Button as shown.



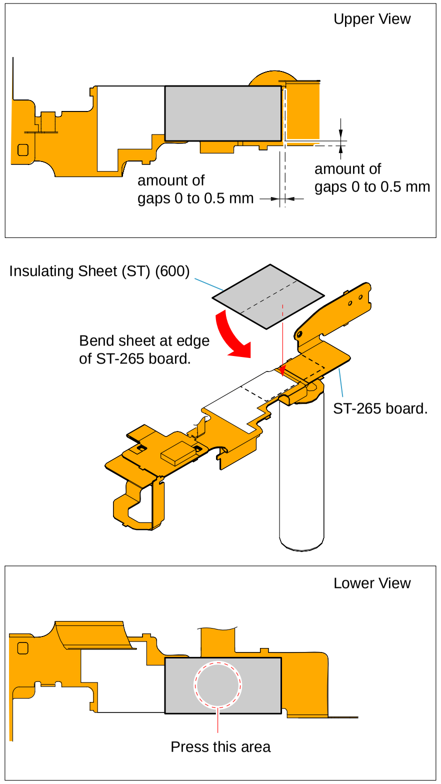
Assembly-10: Installation Cautions of the Shield Tape (ST Flex) (600).

Install the Shield Tape (ST Flex) (600) as shown in the figure.



Assembly-11: Installation Cautions of the Insulating Sheet (ST) (600).

Install the Insulating Sheet (ST) (600) as shown in the figure.

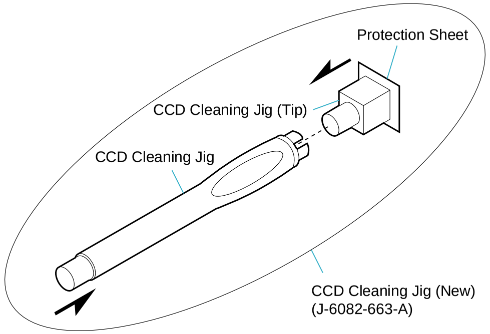


3-2. CLEANING PROCEDURE OF OLPF

<Preparation for Remedy>

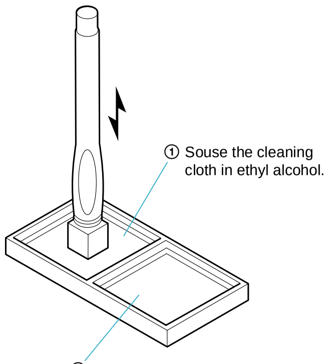
If you use the new Jig (J-6082-663-A) below, make sure to clean the CCD Cleaning Jig (Tip) below before using, please.

Note: Protection sheet is for preventing the scratch of a surface on the Jig (Tip).
The protection sheet may be come off the Jig when you take the Jig from a bag, but it is no problem.



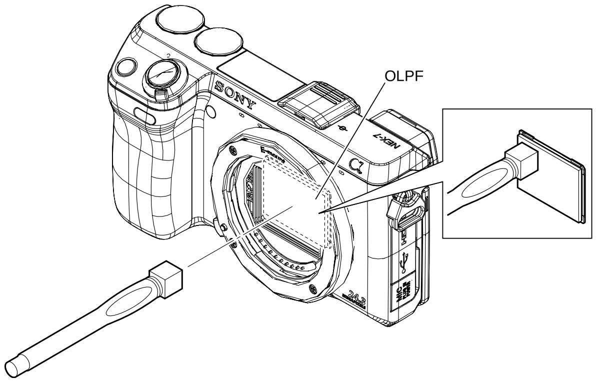
<Cleaning Procedure for Tip of CCD Cleaning Jig>

1. Put the two cleaning cloths on a tray like below.
   ① Souse the one cleaning cloth in ethyl alcohol.
   ② Put the other cleaning cloth on a tray as it is dry.
2. Dab the tip of CCD cleaning jig at the cleaning cloth of ① 5 or 6 times.
   * Do not slide the tip from right to left or up and down while dabbing.
3. Dab the tip of CCD cleaning jig at the cleaning cloth of ② 5 or 6 times.
   * Do not slide from right to left or up and down while dabbing.
4. Wait until the tip will be dried completely.



<Cleaning Procedure for the OLPF>

1. Clean up the tip of CCD cleaning jig.
2. Dab the tip of CCD cleaning jig at the OLPF, and pull up straight.
   * Do not slide from right to left or up and down while dabbing.
3. Repeat “3” several times to clean up.
4. According to service manual, check if there is dirt on the CCD.



<ATTENTION>

If you cannot remove dirt with remedy above, cleaning by the following jig are used.
Soak a small amount of EE3310 (Liquid cleaner) after wrapping the cleaning cloth (J-6082-636-A) around the cleaning jig (J-6082-635-A).

